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The ARTDemo V 1.4 Mobile Application for iPhone

April 1st, 2011.

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User Manual of ARTDemo V1.4 for iPhone

1. Basic Information for the ARTDemo V1.4

1.1. To install

The ARTDemo V1.4 is coming with source and installer file. To get these files and for installation please follow steps:

I. To send “ARTDemo V1.4” to the user. User needs to provide the UDID of the iPhone.

II. After getting the UDID from user, we can create Ad-Hoc mobile provisioning profile for relative device.

III. After step II, we can provide the archive “ARTDemo_V1.4.zip” file to user. User can extract this file and use of iTunes (Windows/MAC) adds this file to iTunes(Windows/MAC) under application tab. User can synchronize the device with iTunes(Windows/MAC). It installs the “ARTDemo V1.4” to iPhone/iPad/iTouch.

Now, ARTDemo V1.4 is ready to use.

1.2. To get UDID

Here are the simple steps to getting the UDID of your iPhone so that our developer can register it with Apple provisioning profile.

I. Connect your iPhone to your computer and start iTunes.

II. Click on your iPhone on the left navigation bar under devices.

III. Under the summary tab, there is a label - Serial Number.

IV. Click on the label - it changes to Identifier (UDID). Note that this label looks like nothing more than just text -- it's not highlighted or otherwise marked to indicate that you can click on it.

V. Hit Ctrl C or Cmd C (if on a Mac) since you will not be able to simply select the UDID and copy it.

VI. Paste the UDID in your email, notepad, word, etc and save it for future reference or send to our developer at info@ampedrftech.com .

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1.3. To start

After finishing the installation process, user needs to search for “ARTech” icon. If user doesn’t find an icon just go through installation process one more time else just click on “ARTech” icon to start “ARTDemo V1.4”

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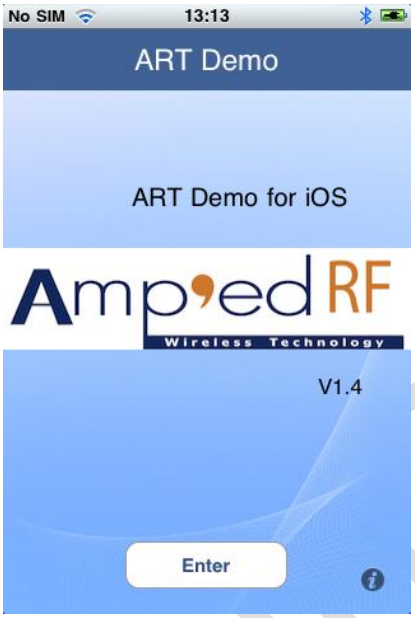
2. Welcome Screen

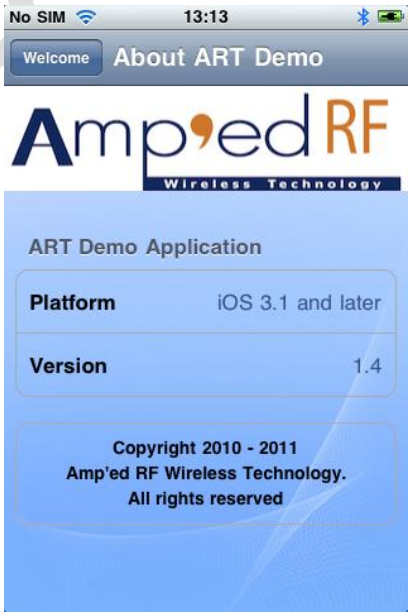
Once the ARTDemo starts successfully, the screen will show the following:



The welcome screen is displayed with company logo. At a bottom of the screen two buttons are located: "*i* " and "Enter"

2.1. About *("i")*

Once a user is pressed "*i*" button, the "About ARTDemo" screen will appear with application information the following:



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If you want to go back to “Welcome” screen please press the button “Welcome” located on a top header on left.

2.2. Enter

Once a user is pressed “Enter” button, the Main Screen will appear the following:

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3. Main Screen

The ARTDemo V1.4 main screen includes three parts:

I. Accessory Devices List for more information described in a chapter 4.

II. Local Bluetooth Service for more information described in a chapter 5.

III. Local Device Information for more information described in a chapter 6.

3.1. Accessory Devices List

This part shows all accessory devices which are connected with the iPhone.

Press the “Accessory Devices List” line, it will show “Accessory List” screen, please see Page 10.

3.2. Local Bluetooth Service

User can press " " button located on a top right header. The Main Screen displays three “Option Menu Buttons” as the following: “Option”, “About” and “Cancel”

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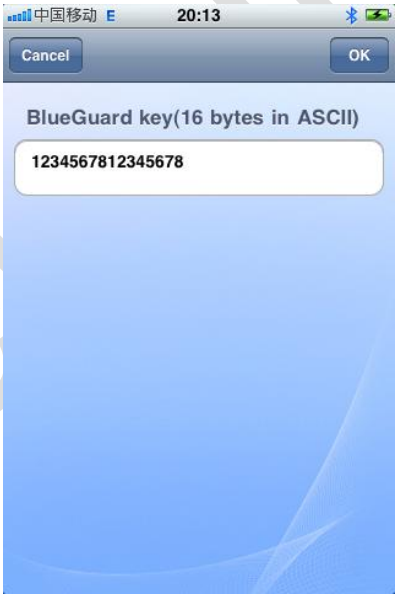
3.2.1. BlueGuard Screen

User presses “Option” button or turns on “BlueGuard” then it appears with the following screen:



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◆ **Press “OK” button**

After pressing “OK” button, the app will be saved information into iPhone local database, and it forwards to main screen. If user starts the application it restores the key from iPhone database each time.

◆ **Press “Cancel” button**

Press “Cancel” button to close this screen, and forwards to main screen.

3.2.2. About

Press “About” button it forward screen to “About” Screen as described in a **2.1** on a page 5.

3.2.3. Cancel

Press “Cancel” button to cancel event.

3.3. Local Device Information

This part shows the iOS device’s following property: Name, Model, iOS System version.

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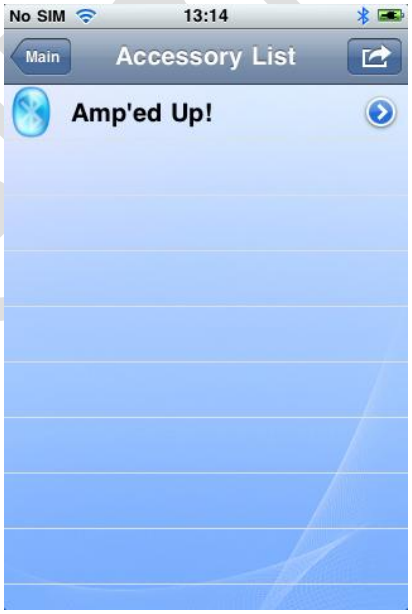
4. Accessory Devices List

This screen displays all devices which are connected with the iPhone. Each item displays with the device serial number.

- Select one item, and press this item right button (arrow shape button), it will show this device detail information screen, please see **4.1** on a page 11.
- Press " " button which located on a top right header of this screen, it will show menu buttons dialog, please see **4.2** on a page 11.
- Select one item, and press this item, it will show this device data transfers screen. Please see **4.3** on a page 12.
- Press "Main" button to go back to "Main" screen.
- When an accessory disconnects with the iPhone, this screen will automatically remove this accessory from accessory list.
- When an accessory connects to the iPhone, this screen will automatically add this accessory to accessory list, and display its serial number.



4.1. Accessory Detail Information Screen

This screen lists the current accessory device property information, as following: Name, Connected state, firmware version, hardware version, manufacturer name, mode number and serial number.

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◆ **Press “Accessory List” button**

Press “Accessory List” button to go back to “Accessory List” screen.

4.2. Accessory Menu Screen

When user presses this “ ” button it appears with the following screen:

◆ **Press “Refresh” button**

Press “Refresh” button, it will refresh the accessory devices list, and re-get all accessory devices which are connected with the iPhone.

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◆ **Press “Cancel” button**

Press “Cancel” button to close options buttons dialog.

4.3. Data Transfers Screen

4.3.1. Information

When user presses the accessory device, it will appear with the following screen:

I : Input some text in the below edit text, then press “Send” button to send these text to the accessory device by Bluetooth link. If the app sends this message successfully, this message will be displayed on above edit text.

II : If the app receives message from the accessory device, these message are displayed on above edit text.

III : The middle region display the data bytes which are sent and received.

The following figure display the middle region of the screen:

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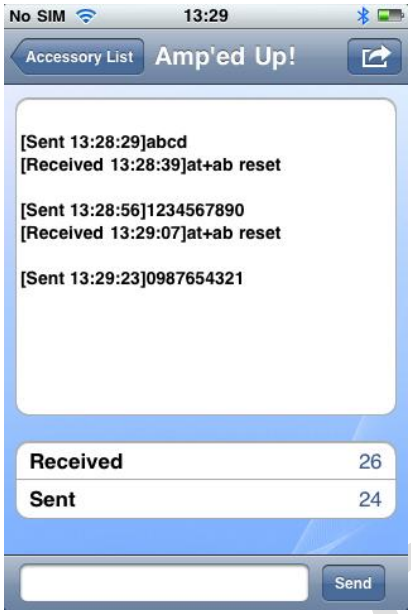
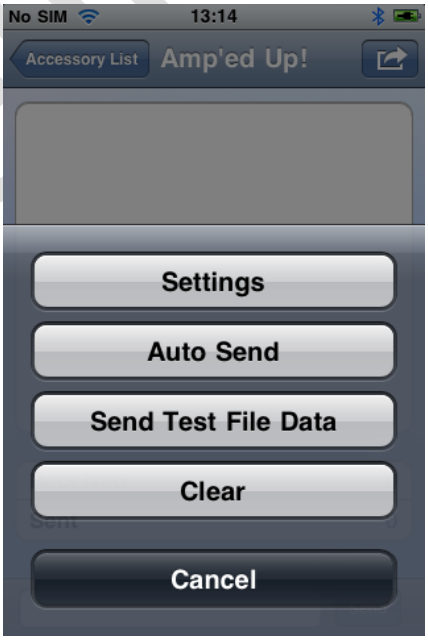


4.3.1.1. Press “Accessory List” button

Press “Accessory List” button to go back to “Accessory List” screen.

4.3.1.2. Press “Menu ” button

Press “ ” button which located on top right header of this screen, it will show two buttons dialog as following:



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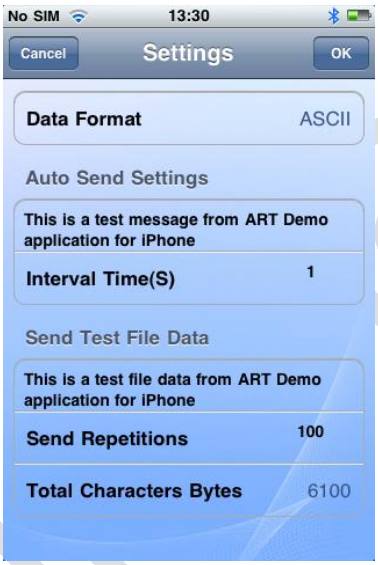
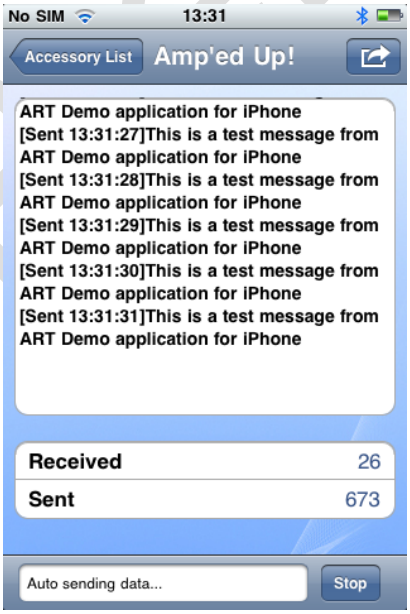
◆ **Press "Settings" button**

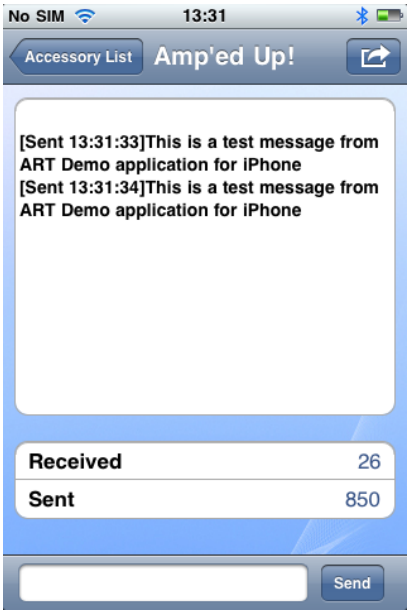
It will forward to "Data transfers settings screen".

◆ **Press "Auto Send" button**

User has a choice to do data transfers manual and auto send. If user decides to send data automatically to the remote device, user needs to press the "Auto Send" button to start auto send process. On the "Settings" screen, user has an option to define custom text message to be sent. The default value is "This is a test message from ART Demo application for iPhone"




No SIM
13:31
Accessory List
Amp'ed Up!
ART Demo application for iPhone
[Sent 13:31:27]This is a test message from ART Demo application for iPhone
[Sent 13:31:28]This is a test message from ART Demo application for iPhone
[Sent 13:31:29]This is a test message from ART Demo application for iPhone
[Sent 13:31:30]This is a test message from ART Demo application for iPhone
[Sent 13:31:31]This is a test message from ART Demo application for iPhone
Received
26
Sent
673
Auto sending data...
Stop



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Press “Stop” button to avoid auto sending process,

If user wants to repeat the auto sending process, please press the “Auto Send” from menu again.

In case user wants to do “Send Test Data File” process during “Auto Send”, user can get the following warning on a screen.

Warning means user needs to “Stop” the “Auto Send” process, then user can follow with another process.

During the “Auto Send” process the use gets out of range and or either way disconnected with a module, the following warning appears on a screen and if user presses “OK” than user disconnected with a module, it forwards screen back onto “Accessory Device List Screen”.

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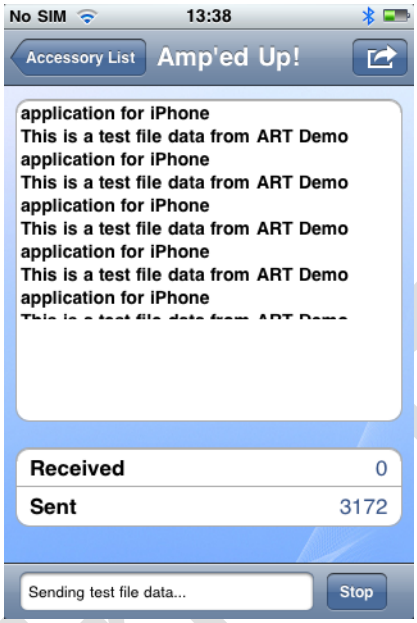
◆ **Press "Send Test File Data" button**

If user decides to send test file data to the remote device, user needs to press the "Send Test File Data" button to start send test file data process. On the "Settings" screen, user has an option to define custom text message to be sent. The default value is "This is a test file data from ART Demo application for iPhone"



◆ **Press "Clear" button**

Press "Clear" to clear the current screen, send bytes and receive bytes.

◆ **Press "Cancel" button**

Press "Cancel" button to close menu button dialog.

4.3.2. Data Settings Screen

When user pressed "settings" menu button the following screen will appear:

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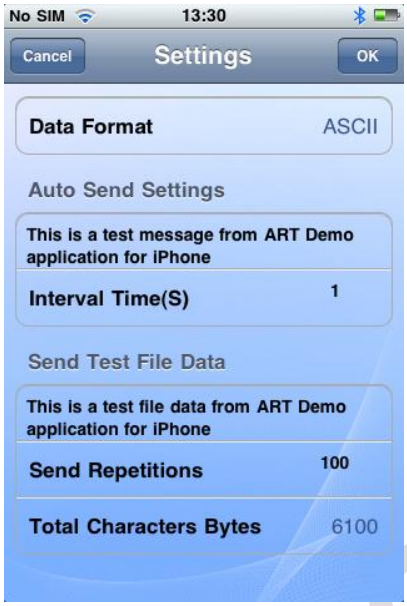
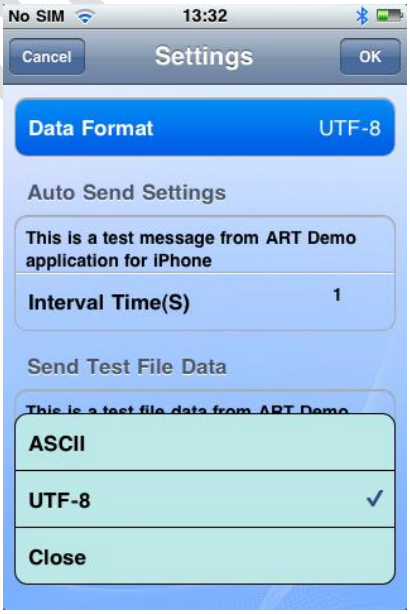


4.3.2.1. Data Format

Data transfers format type. It includes two types: ASCII, UTF-8. The default value is ASCII.



If the data format value is “ASCII”, the data transfers format between the iPhone ARTDemo app and the BT module is ASCII format;

If the data format value is “UTF-8”, the data transfers format between the iPhone ARTDemo app and the BT module is UTF-8 format;

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The default format is ASCII.

4.3.2.2. Auto Send Data

In the auto send data edit text, user can enter custom text message which can be sent to the remote device automatically.

The default value is “This is a test message from ART Demo application for iPhone”.

4.3.2.3. Interval Time

The Interval Time option allows user to send data on an interval e.g. 1 second is default here.

- **Press “OK” button**

Press this button to save these settings, and go back to the "data transfers" screen.

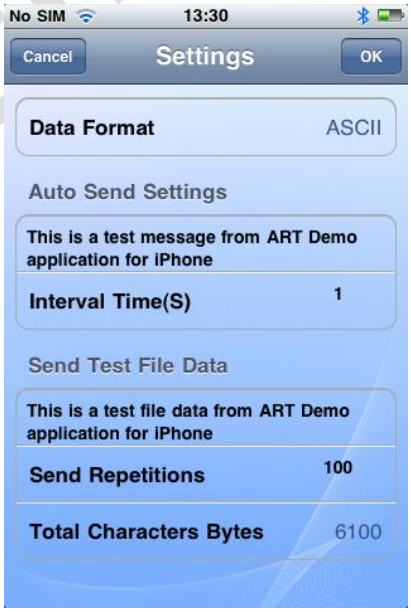
- **Press “Cancel” button**

Press “Cancel” button to close this screen, and go back to the “data transfers” screen.

4.3.2.4. Send Test File Data

In the send test file data edit text, user can enter custom test file text message.

The default value is “This is a test file data from ART Demo application for iPhone”.



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- **Send Repetitions**

User –defined option to send the same line repetitively.

- **Total Characters Bytes**

This option calculates the total characters bytes user is going to send from device, it depends on a "**Send Repetitions"**.

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